

Feed Manager



Directions for use

"Original instructions"

GB

Edition: I Ausgabe:
Edition: I Udgave:
X05



Powered by Kongskilde

THE FOLLOWING MODELS ARE CERTIFIED FOR FCC (USA) AND IC (CANADA):

JE783

- FCC ID 2AE3QJE783
- IC: 20352-JE783

JE784

- FCC ID 2AE3QJE784
- IC: 20352-JE784

JE785

- FCC ID 2AE3QJE785
- IC: 20352-JE785

JE786

- FCC ID 2AE3QJE786
- IC: 20352-JE786

Statement:

USA:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one in which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications can void the user's authority to operate the equipment.

Canada:

This device complies with Industry Canada licence-exempt RSS standards.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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1. FEED MANAGER

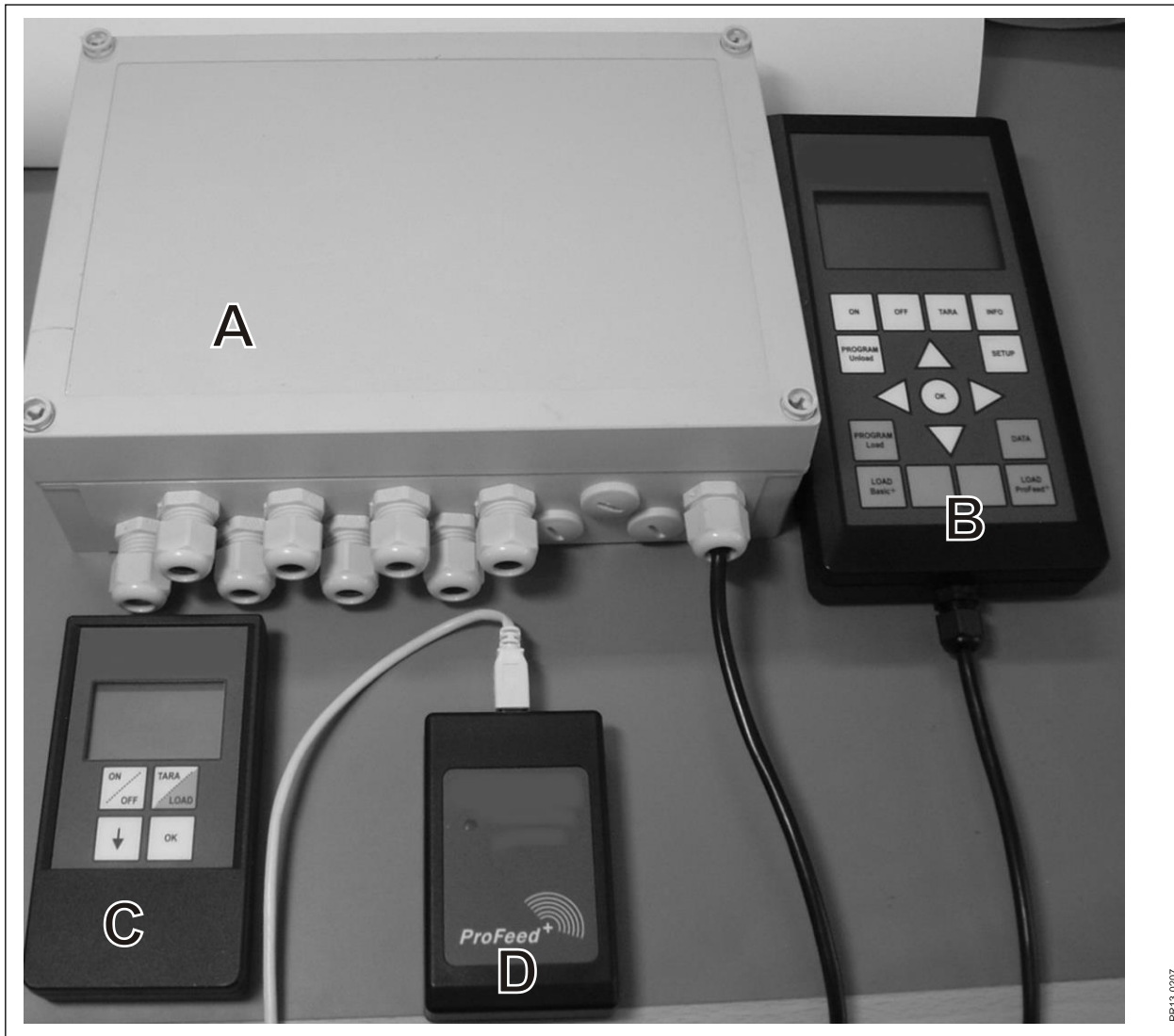


Fig. 1.1

1. FEED MANAGER

JF offers Feed Manager (the wireless weighing system) in three versions:

BASIC

Weight information via wireless display with tara-function (reset), unload help, choice of language and display settings (white buttons on main terminal).

BASIC+

The same as “Basic” but including the characteristic “help for filling of feed / loading function”.

PROFEED+

The same as “Basic” extended with professional loading function, registration of data, wireless synchronization module, pc-program for collation of registered data and various settings as well as modification of unload plans and settings.

The Basic weighing system can subsequently be upgraded to Basic+ or Profeed+.

Fig. 1.1 Modules which are included in the wireless weighing system (besides the weighing cells):

Basic / Basic+:

- A) An intelligent assembly box for weighing cells which among other things contains a radio transmitter / receiver.
- B) A main terminal with graphic display which is typically placed in the loading tractor.
- C) A hand terminal with graphic display which is typically placed in the tractor in front of the feeder (is supplied with cable fitted). However, it can be brought along (battery-powered) and used as slave display by the large terminal in connection with filling of feed (when using the same tractor for filling and operating the feeder the hand terminal can be spared, or you can use several hand terminals if required).

Profeed+:

- D) Radio transmitter / receiver which must be connected to a USB port on a PC.
- E) PC software for setting up of load plans and unload plans as well as analyses of the actually loaded amounts of feed.

Besides, software for up-grading the system to Basic+ and Profeed+.

1. FEED MANAGER

SPECIFICATION

B: Applies for the Basic-module

B+: Applies for the Basic+-module

P+: Applies for the Profeed+-module (PC-software included)

	Main terminal B)	Hand terminal C)	PC- soft- ware E)
CE-approved	B, B+, P+	B, B+, P+	
Wireless communication to assembly box on feeder	B, B+, P+	B, B+, P+	
Wireless communication to PC	P+		
Data registration: date, time, terminal No., user-ID, load plan number, number of animals, ingredient No., ingredient name, planned weight, actual weight	P+		P+
Data presented graphically or in tabular form			P+
Languages (Danish, English, German, French, Swedish, Spanish, Finnish, Russian, Polish)	B, B+, P+	B, B+, P+	P+
Storage capacity 7500 mixtures	P+		
Storage capacity 99 load plans	B+, P+		
15 feed types per load plan	B+, P+		
9 load plans	B, B+, P+	B, B+, P+	
64 named feed types (32 pre-defined and 32 user-defined)	B, B+, P+		
Acoustic help for loading as well as for discharge	(B), B+, P+	(B), B+, P+	
Display of weight	B, B+, P+	B, B+, P+	

Range, feeder/display: approx. 30 m (without hindrances such as buildings etc.).

3 different loading techniques can be chosen:

- A. LOAD Basic: Simple weight.
- B. LOAD Basic+: Automatic routine which shifts to next ingredient after an acoustic signal
- C. LOAD ProFeed+: The user must acknowledge in order to shift to the next ingredient. Loading in arbitrary order.

1. FEED MANAGER

MOUNTING AND USE

The assembly box is always mounted on the machine from the factory, among other things because the calibration data are stored inside the box.



Must be supplied with 12-24 V DC through the cable with the 2-pole plug and there must be a max. 10A fuse.

The main terminal must be placed in the tractor.



Must be supplied with 12-24 V DC through the cable with the 2-pole plug and there must be a max. 10A fuse.

The main terminal is delivered with a holder that can be mounted in the tractor cabin. Alternatively the terminal can be mounted on the mounting arm for optimal placement by means of the strong sucking disc.

The hand terminal can also be placed in the tractor by means of the included holder. Alternatively the holder can be mounted on the mounting arm for optimal placement by means of the strong sucking disc.



Must be supplied with 12-24 V DC and a max. 10A fuse.

It can also be supplied with a 9 V alkaline or rechargeable battery (we recommend the last-mentioned). For recharging a rechargeable battery we offer a charge unit with plug outlet for hand terminal. For permanent placement at bins or the like, we offer a power supply (220V converted to 12V). (Contact your JF Dealer. See spare parts book for order number).

If it is placed in the tractor permanently we recommend the use of 12-24 V DC supply.



The life time of the battery can be increased considerably by not having the back-ground light activated.

If batteries are used please avoid storage at temperatures below 0°C.

2. MENU, MAIN TERMINAL



Fig. 2.1

2. MENU, MAIN TERMINAL

Fig. 2.1 The following describes the menus in the main terminal. A menu or a menu point is selected by means of → or the OK button. A menu is exited by means of ←. General navigation in the menus takes place by means of the arrow keys.

1. PROGRAM UNLOAD (A)

Program unload is a feature that offers help for unloading.

1.1. Unload:

Activates the unload mode selected under 1.3. With per cent or kilo intervals, the terminal leaps to unload. At unload plan (ULP) you first have to choose between the available ULPs. The unloading is concluded by pressing the “program unload” (A) button.

1.2. Alarm on/off:

Turning the alarm on or off. After turning on the alarm, the desired number of acoustic signals must be chosen. Select a number from 1-5 by means of ↓ and ↑ and press OK to end.

1.3. Unload mode:

There are 3 options:

kg interval: Here the length of the intervals between the acoustic signals measured in kg/lb is stated. If “1000” is typed in there will be an acoustic signal for each 1000 kg/lb that are discharged. The number of kg is chosen by means of ↓ and ↑. Press OK. The acoustic signal implies that the alarm is on.

% of total: Here the length of the intervals between the acoustic signals measured in % of the total amount of feed in the feeder is stated. If “33” is typed in and there are 4500 kg in the feeder there will be an acoustic signal for each 1500 kg that are discharged. The percentage is selected by means of ↓ and ↑. Press OK to end.

The acoustic signal implies that the alarm is on.

ULP: Division of individual groups (an unload plan). Acoustic signal when the discharge for a specific group is coming to an end. E.g. 3 animal groups: one group must have 1000 kg, the second group 2000 kg and the third group the rest of the feed. There will be an acoustic signal when 1000 kg has been discharged and again after 3000 kg.

The ULP is created under point 1.5. (create ULP) or by means of Profeed+ PC software. The ULP point only appears if one or more unload plans have been created.

2. MENU, MAIN TERMINAL



Fig. 2.1

1.4. Transfer Unload:

Here the unload mode selected under 1.3 is transferred to the hand terminal(s). The alarm settings are also transferred.



PLEASE NOTE! THE HAND TERMINAL MUST BE SWITCHED ON.

1.5. Create ULP

State number of groups. In order to edit the field press “OK”. The field is changed from filled square to transparent square. When the field is transparent the value can be changed by using ↓ and ↑. Press “OK” to end the process. Now state the total amount that according to load plan should be in the feeder when it is ready for discharge. Now state how many kg feed each group must have. The last group will automatically receive the rest of the feed. After the last statement press ↓ and then choose OK. Now the unload plan has been saved. **Please note!** The unload plan is automatically given the next available number in succession.

The unload plan can also in case of Profeed+ be created via PC-software.

1.6. Edit ULP:

Menu point that appears when an ULP has been created.

Choose the desired plan from the list by pressing→. In order to edit the field press “OK”. The field is changed from filled square to transparent square. When the field is transparent the value can be changed by using ↓ and ↑. After editing press ↓ until the words OK/Regret are shown in the display. Finish the process by pressing OK at the bottom.

1.7. Delete ULP:

Menu point that appears when an ULP has been created.

Choose the desired plan from the list by pressing→. Choose “Yes” by means of →.

2. INFO (B)

Contains information regarding user-specific loadings (number of mixtures, periods, total weight) as well as total amount of mixtures, period and total weight discharged.

2. MENU, MAIN TERMINAL



Fig. 2.1

3. SETUP (C)

3.1. Language:

Choose the desired language from the list by pressing →.

3.2. Date and time:

You can leaf from field to field by means of →. Change the setting in the field by pressing ↓ and ↑. Finish the process by pressing OK at the bottom.

3.3. Alarm sound:

5 different types of sounds can be chosen by means of →.

3.4. Display backlight:

You can choose between “On” and “Off” by means of →.

3.5. Display contrast:

You can choose a setting from a list from 1 to 10 by means of ↓↑ and →. 1 is quite bright and 10 is quite black. Setting 5 will in most cases be the best choice.

3.6. Calibration:

For authorized service staff only. An access code is required in order to gain access to this menu.

3.7. User:

There are 2 options:

Select user: Select the desired user from the list by pressing →.

Create user: New user can be created. The user name can consist of maximum 4 digits. Each digit can be chosen by pressing ↓ and ↑. The complete alphabet (both block letters and small letters) as well as the numbers from 0 to 9 can be chosen. Finish the process by pressing OK at the bottom.

3.8. Weight speed:

Here the update-speed of the weighing system is adjusted. If necessary, the sensitivity of the weighing system can be reduced. You can choose a setting from 1 to 10 by means of ↓↑, 10 being the least sensitive.

3.9. Weight unit:

You can choose between “kg” and “lb” (pound) by means of →.

3.10. Automatic turn-off function

You can choose between “On” and “Off” by means of →. If automatic turn-off function is “On” the main terminal will turn off 1 hour after the last key has been pressed.

3.11. Learn mode:

In order for all units to work together as one system which is not disturbed by signals from the outside, they must be “linked together”.

See chapter 6 and the section about learning.

3.12. About

Shows which software version is in the main terminal and its unique serial number. The serial number is necessary in case of calibration.

2. MENU, MAIN TERMINAL



Fig. 2.1

4. PROGRAM LOAD (D)

4.1. Alarm setup:

4.1.1 Alarm on/off:

You can choose between “On” and “Off” by means of →.

4.1.2 Alarm setpoint:

Here the number of kg or lb (pounds) is stated, at which the alarm sounds in connection with loading of ingredients, in order to indicate that the loading amount has soon been reached.

4.2. Loading mode:

Only relevant in connection with “LOAD ProFeed+”.

There are 2 options:

Semi-automatic: When “LOAD ProFeed+” is used the system automatically leaps to the next ingredient. This happens approx. 12 seconds after the desired amount has been reached. Mode of operation corresponds to “LOAD Basic+” but filling data are stored. Can by means of ↓ be forced to leap to the next ingredient if the amount is not reached.

User controlled: The safe method that should always be used in connection with “LOAD ProFeed+”. The user must actively choose the desired ingredient and must also actively stop the filling of each ingredient.

4.3. Create LP (load plan):

The load plan is automatically given the next available number in succession. Type in number of ingredients. In order to edit the field press “OK”. The field is changed from filled square to transparent square. When the field is transparent the value can be changed by using ↓ and ↑. Press “OK” to end the process. “Number of animals” can be typed in the same way.

The name of the ingredient can be chosen from a table which can be edited on a PC. By pressing “OK” it is possible to leaf through the table by means of → and ←. Press “OK” to end. Now type in the number of kg (lb) that applies to the ingredient in question.

When all fields are filled in, finish the process by pressing OK at the bottom.

4.4. Edit LP:

Menu point that appears when a LP has been created.

Choose the load plan that must be edited from the list by pressing →. Now the fields can be changed as described under 4.3.

4.5. Delete LP:

Menu point that appears when a LP has been created.

Choose the load plan that must be deleted from the list by pressing →. Now you must answer “yes” or “no”. If you choose “yes” (by means of →) the chosen load plan is deleted.

2. MENU, MAIN TERMINAL



Fig. 2.1

5. DATA (E)

5.1. Show data:

There are 3 options:

5.1.1. All data:

You must choose a date interval to limit the amount of data which is subsequently shown. Below you can see an example with only 3 stored feed mixtures. The amount of data that can be shown in the display at a time is marked with a thick frame, which can be moved by means of the arrow keys.

5.1.1 Data 1/3	5.1.1 Data 2/3	5.1.1 Data 3/3
LP#02 Cow: 55 05.12.06 14:20 User: John 3755 kg (3740)	LP#04 Cow: 73 05.12.06 15:12 User: John 4265 kg (4255)	LP#02 Cow: 55 06.12.06 16:17 User: John 3760 kg (3740)
5.1.1 Data 1/3	5.1.1 Data 2/3	5.1.1 Data 3/3
1. Hay, grass.: 1810 kg (1800) 2. Maise sila.: 1945 kg (1940)	1. Rape cakes: 425 kg (435) 2. Straw: 75 kg (70)	1. Hay, grass.: 1815 kg (1800) 2. Maise sila.: 1945 kg (1940)
5.1.1 Data 1/3	5.1.1 Data 2/3	5.1.1 Data 3/3
Return	3. Hay, grass.: 1930 kg (1920) 4. Maise sila.: 1845 kg (1830)	Return
	5.1.1 Data 2/3	
	Return	

The number in the brackets shows the quantity according to the load plan on the particular day. The number in front of the brackets shows the amount of that has actually been loaded into the Feeder.

5.1.2. Total/ingred. (Total amount of ingredient):

You must choose a date interval to limit the amount of data which is subsequently shown. Now a list of all the ingredients appears that have been used within the chosen period as well as the added-up quantities belonging to it.

5.1.3. Total/LP (Total amount of ingredient per load plan):

You must choose a date interval to limit the amount of data which is subsequently shown. Now a list of all the load plans appears that have been used within the chosen period as well as the added-up quantities belonging to it.

2. MENU, MAIN TERMINAL

5.2. Delete data

5.2.1. Delete all.

Deletes all data.

5.2.2. Delete by date.

Deletes the data in a given period

Sets of data which are older than or equal to the chosen date are deleted.

5.3 Memory

Shows the amount of free usage data. One per loading.

2. MENU, MAIN TERMINAL



Fig. 2.1

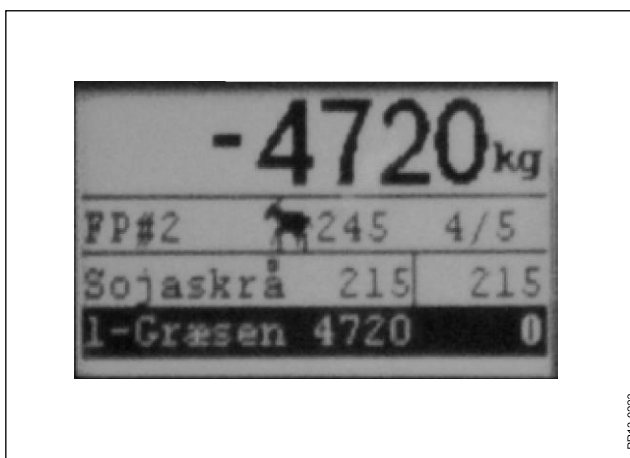


Fig. 2.2

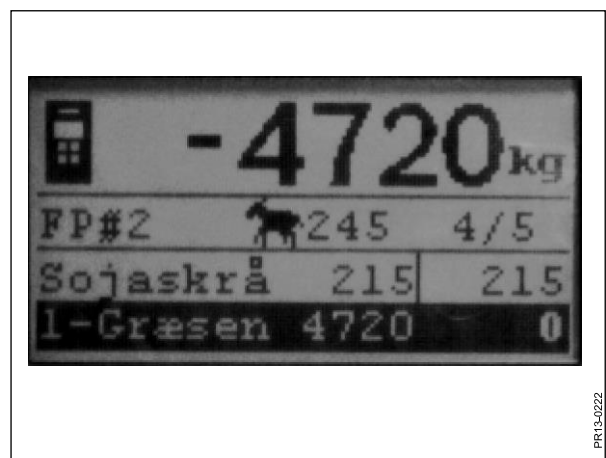


Fig. 2.3

LOAD BASIC⁺ (F)

Fig 2.2 Choose the desired load plan from the list by pressing →. User and number of animals can be changed. This is done by means of ↓ and ↑.

When you press “OK” the actual load plan is scaled in proportion to the amount of animals.

Before starting the filling press “OK” and the first ingredient is marked. The first number shows how many kg of the ingredient in question must be filled and the last number shows how many kg are actually filled in.

The large number at the top shows the difference between the desired and the actual value. A positive value means that the amount has been exceeded.

If the alarm is on, you will hear an acoustic signal when the amount of feed that is filled in reaches the amount stated in the load plan. When the desired amount has been reached it **automatically** leaps on to the next ingredient.

In order to allow that any remaining amount in the bucket can be filled in, there is a delay of 12 seconds before it leaps on.

Can by means of ↓ be forced to leap to the next ingredient if the amount is not reached.



With Basic+ it is not possible to leap backwards in the load plan, and the amounts that are filled into the feeder are not stored.

If you wish to end without using the load plan press LOAD Basic⁺ and choose “Yes”.

The large number in the display shows the amount that still needs to be loaded of the ingredient in question.

Fig. 2.3 When a hand terminal is active and load has been chosen on this terminal, an icon is shown at the top of the display on the main terminal. In this situation it is the hand terminal that decides when to leap on. The main terminal takes over the control by pressing “OK”, ↓ or ↑.

2. MENU, MAIN TERMINAL



Fig. 2.1

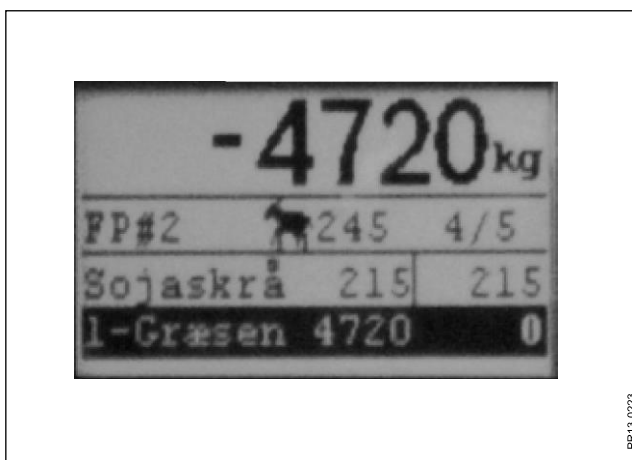


Fig. 2.2

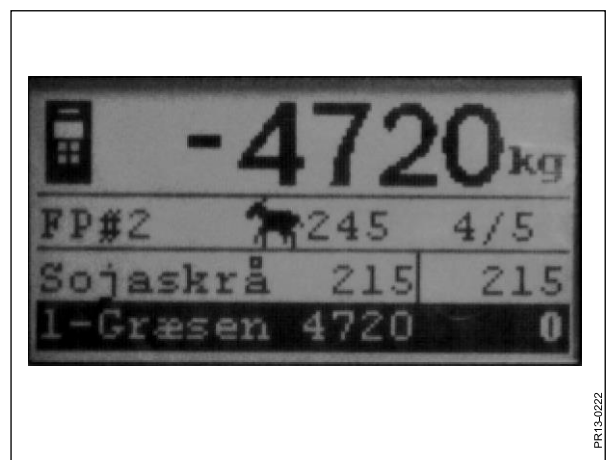


Fig. 2.3

LOAD PROFEED⁺ (G)

Fig 2.2 Choose the desired load plan from the list by pressing →. User and number of animals can be changed. This is done by means of ↓ and ↑.

When you press “OK” the actual load plan is scaled in proportion to the amount of animals.

Chose the ingredient that must be filled in with ↓ and ↑. Before starting the filling press “OK” and the ingredient is marked. The first number shows how many kg of the ingredient in question must be filled and the last number shows how many kg are actually filled in. The large number at the top shows the difference between the desired and the actual value. A positive value means that the amount has been exceeded. Press OK to leave the active ingredient. In this case the large number at the top shows the total weight in relation to the latest resetting.

If the alarm is on, you will hear an acoustic signal when the amount of feed that is filled in reaches the amount stated in the load plan.

As soon as you reach the amount press “OK”, ↓ or ↑. Now the actual quantity is stored in the memory.



With ProFeed+ it is possible to leap backwards in the load plan, and you can always fill-in some more of an ingredient that has already been used.

It is not the system, but the user who decides what is going to happen.

In order to navigate between the individual ingredients, you need to choose “user controlled” under 4.2.

If you wish to end without using the load plan, press LOAD ProFeed⁺ and choose “Yes”.

Fig. 2.3 When a hand terminal is active and load has been chosen on this terminal, an icon is shown at the top of the display on the main terminal. In this situation it is the hand terminal that decides when to leap on. The main terminal takes over the control by pressing “OK”, ↓ or ↑.



If the Feeder is moved during loading, we recommend you to leave the active ingredient. This is done by pressing “OK”. Thereby you ensure an exact registration (due to physical influence when moving the Feeder, the weight indication may deviate a bit).

3. MENU, HAND TERMINAL

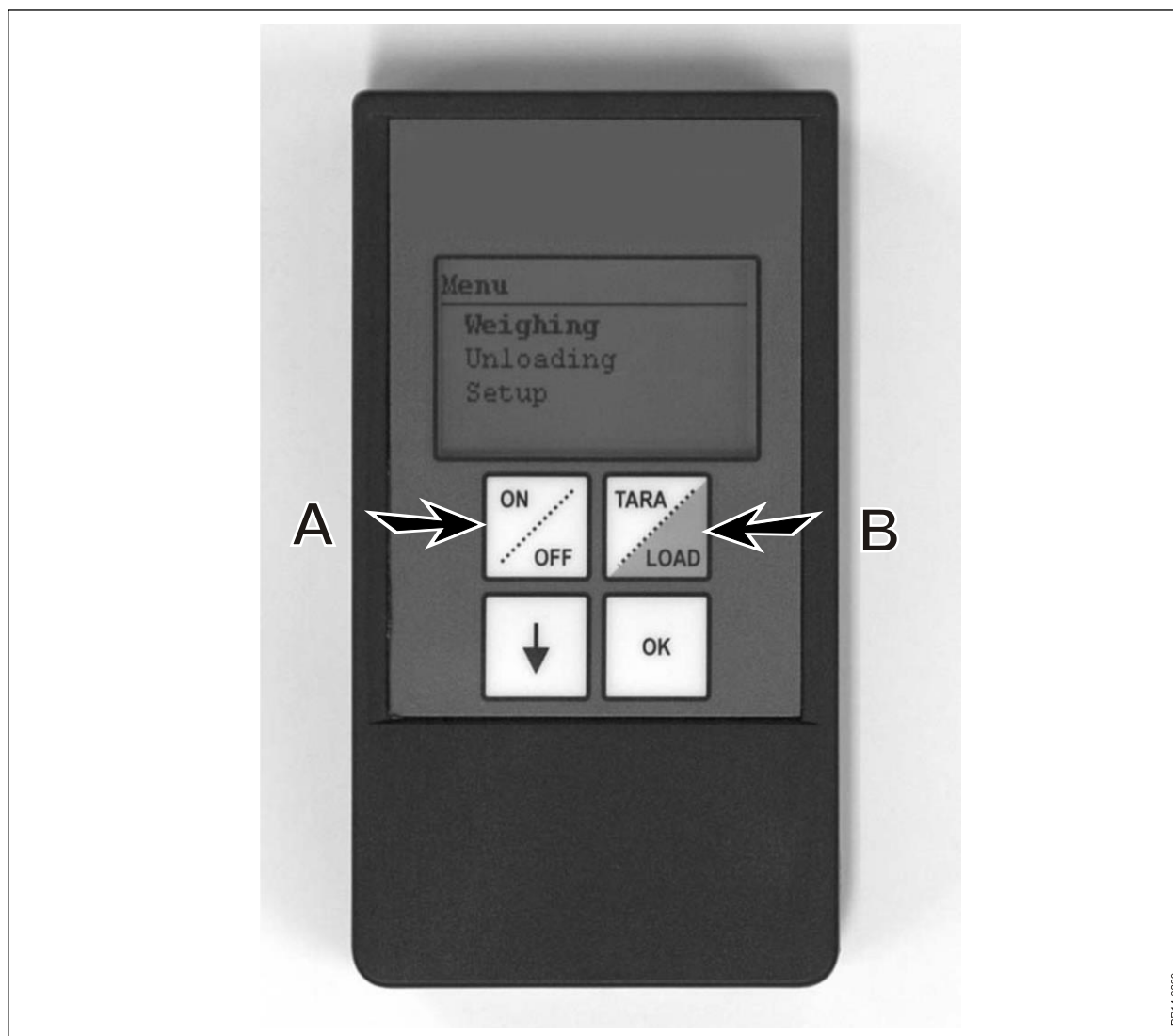


Fig. 3.1

3. MENU, HAND TERMINAL

ON / OFF (A)

Fig. 3.1 Press ON/OFF to view following menu points in the display:

Weighing
Unloading
Setup

Use ↓ to leap and press "OK" to choose a menu point.

Weighing:

The display shows the actual weight received from the assembly box which is placed on the Feeder.

Unloading:

If unload plans have been transferred from the main terminal they can be chosen from a list.

Setup:

If you choose Setup the following menu points will appear in the display:

Contrast (6)
Backlight (On)
Auto off (10)
Learn mode
Return

The value in the brackets shows the actual setting.

Display contrast:

You can choose a setting from a list from 1 to 10 by means of ↓. 1 is quite bright and 10 is quite black. Setting 6 will in most cases be the best choice.

Backlight:

You can choose between "On" and "Off" by means of ↓.

Automatic turn-off function:

You can choose how many minutes the terminal must be turned on.

Learn mode:

Is chosen after menu point 3.11 has been chosen on the main terminal. This links the hand terminal together with the main terminal.
See chapter 6 and the section about learning.

Return:

Returns to main menu.

3. MENU, HAND TERMINAL

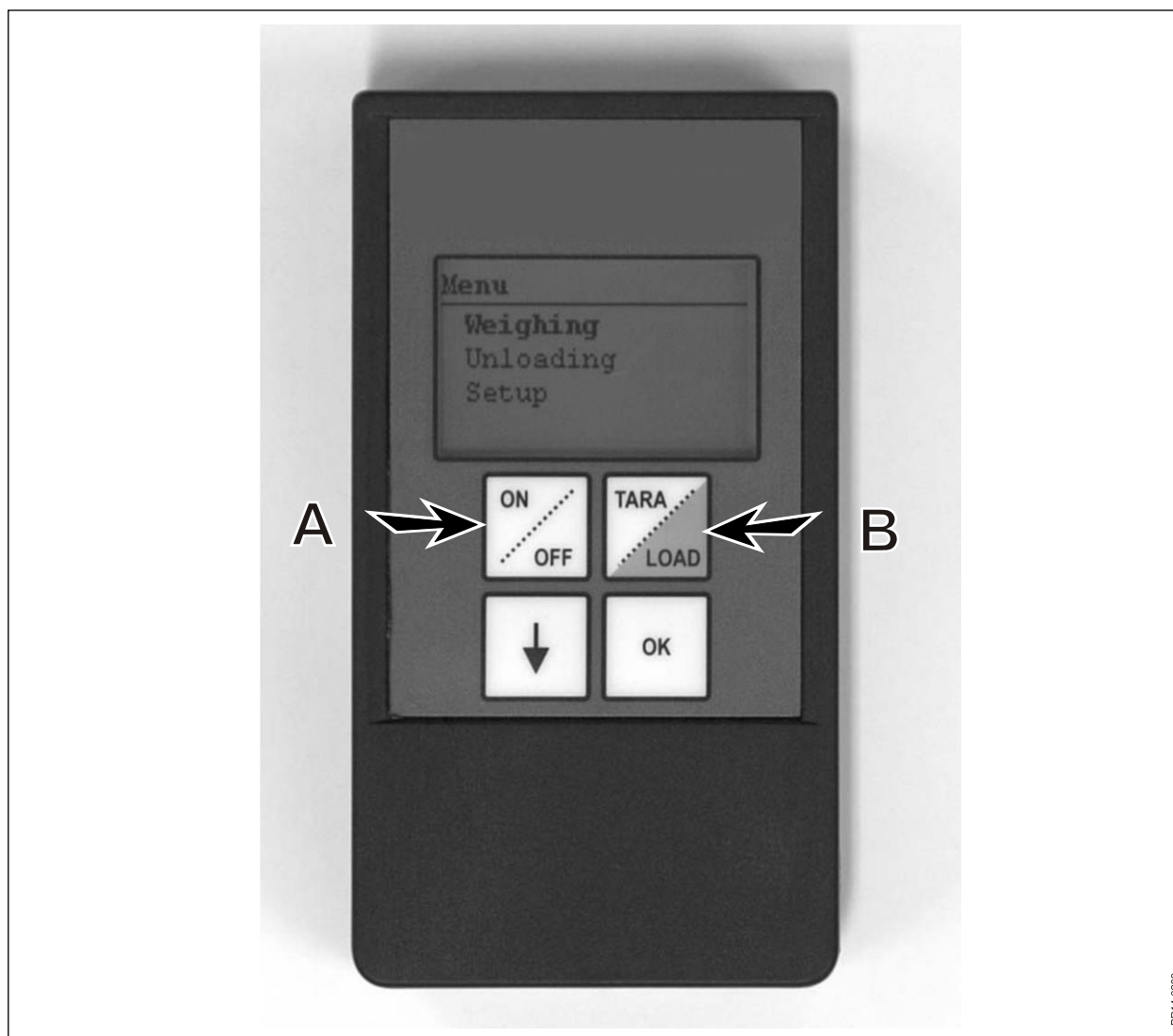


Fig. 3.1

TARA / LOAD (B)

Press TARA/LOAD to view the following menu points in the display:

Tara
Load
Weighing

Use ↓ to leap and press "OK" to choose a menu point.

Tara:

If you choose Tara the weight is zeroed. The new reference point is stored in the assembly box which is placed on the Feeder, exactly the same way as if you press tara on the main terminal. If you press Tara when the main terminal is in a load, a menu will appear in which you can choose between Tara and return.



Remember that when you are resetting during a load, both the weight of the current ingredient and the total weight will disappear.

Load:

Only has a function if LOAD Basic⁺ or LOAD ProFeed⁺ is activated on the main terminal. The display shows the same as the main terminal. I. e. it works as a "Remote display". Besides, ↓ and "OK" also function.

The hand terminal is thus also a remote control which allows you to accept the quantity that has just been filled in and leap on to the next ingredient.

If you want to return to the top, you need to navigate to the bottom and answer "no" to ending.

Weighing:

Shows the actual weight the last time Tara was pressed.

4. PC SOFTWARE

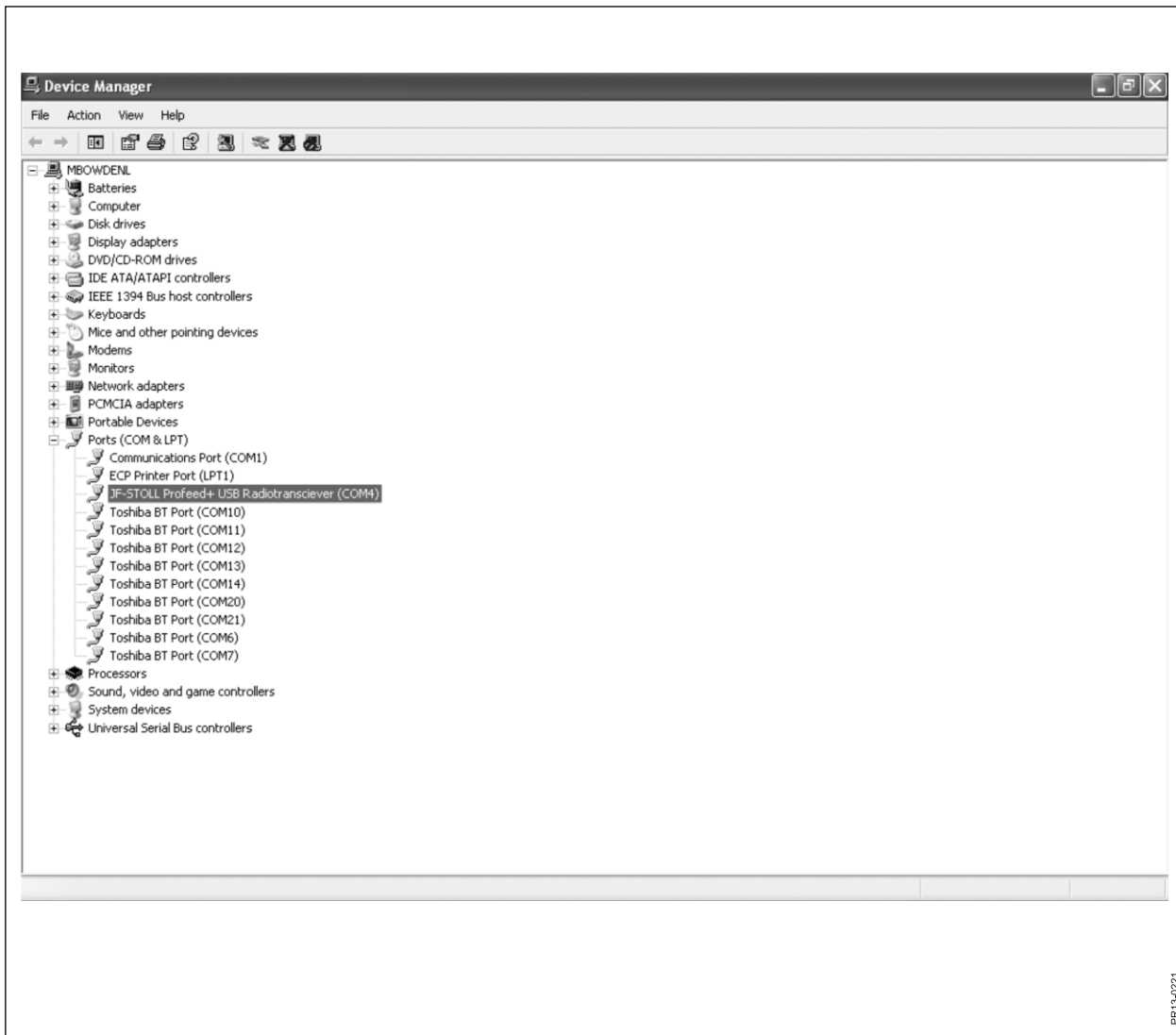


Fig. 4.1

4. PC SOFTWARE

INSTALLATION OF PC SOFTWARE

The ProFeed+ PC-software is developed for Windows XP and Windows Vista. The software can also operate on Windows 98, 2000, ME and NT, but this requires fully updated versions.

It may be necessary to deactivate the anti-virus programme during the installation.

In Windows Vista it may be necessary to deactivate user control (UAC) in order to be allowed to install the program. This is done by choosing “start”, “control panel”, “user accounts”. Here you must choose “Turn User Account Control On or Off”. Remove the check mark and press “OK”. The changes will become effective when the computer has been restarted.

- 1) Insert the CD in the drive and follow the instructions in the installation program. If the installation program does not start automatically: open “Explorer”, click on the cd-drive and select “setup.exe.”
- 2) Connect the USB unit to the computer. Wait until Windows has installed the software.
- 3) By choosing the ProFeed+ icon (symbol: a happy cow!) ProFeed+ can now be started.

If the computer is using Windows 98/2000/ME or NT it may be necessary to choose the menu point “Settings” (see section E further ahead) and under “Communication settings” the port must be chosen manually from a list.

Fig. 4.1

In order to find the right port you must feel your way or look in the control panel. In the example (Fig. 4.1) the unit is connected to COM5.



Please note! In connection with updating of software, the installation program will ask “Keep existing data”. If you answer “No”, all registered data, load plans, unload plans and users will be deleted.

4. PC SOFTWARE



Fig. 4.2

MENU A: “VIEW DATA”

Fig. 4.2

1. “Choice of method”.

There are 6 options:

All data:	All preserved data are shown. Shown as one feeding at a time, sorted after date and time.
Ingredient:	Used together with 2. “Criteria”, 3. “Start” and 4. “End”. Shows the consumption of a certain ingredient within a given time interval.
Load plan:	Used together with 2. “Criteria”, 3. “Start” and 4. “End”. Shows the use of a load plan within a given time interval.
User:	Used together with 2. “Criteria”, 3. “Start” and 4. “End”. Shows which mixtures a certain user has made within a given time interval.
Feeder:	Used together with 2. “Criteria”, 3. “Start” and 4. “End”. Shows which mixtures a certain Feeder has made within a given time interval.
Total/Ingredient:	Used together with 2. “Criteria”, 3. “Start” and 4. “End”. Shows the sum of planned and actual consumption within a given time interval.

5. “Export to CSV file”

The shown data are exported to a semicolon separated standard spreadsheet file. If for example Excel is installed on the computer this program is automatically opened and the file can be saved and/or printed.

6. “Make printable report”

The shown data are exported to Word which opens automatically after which they can be printed and processed freely or saved. The table in the Word document can be copied to Excel.

4. PC SOFTWARE

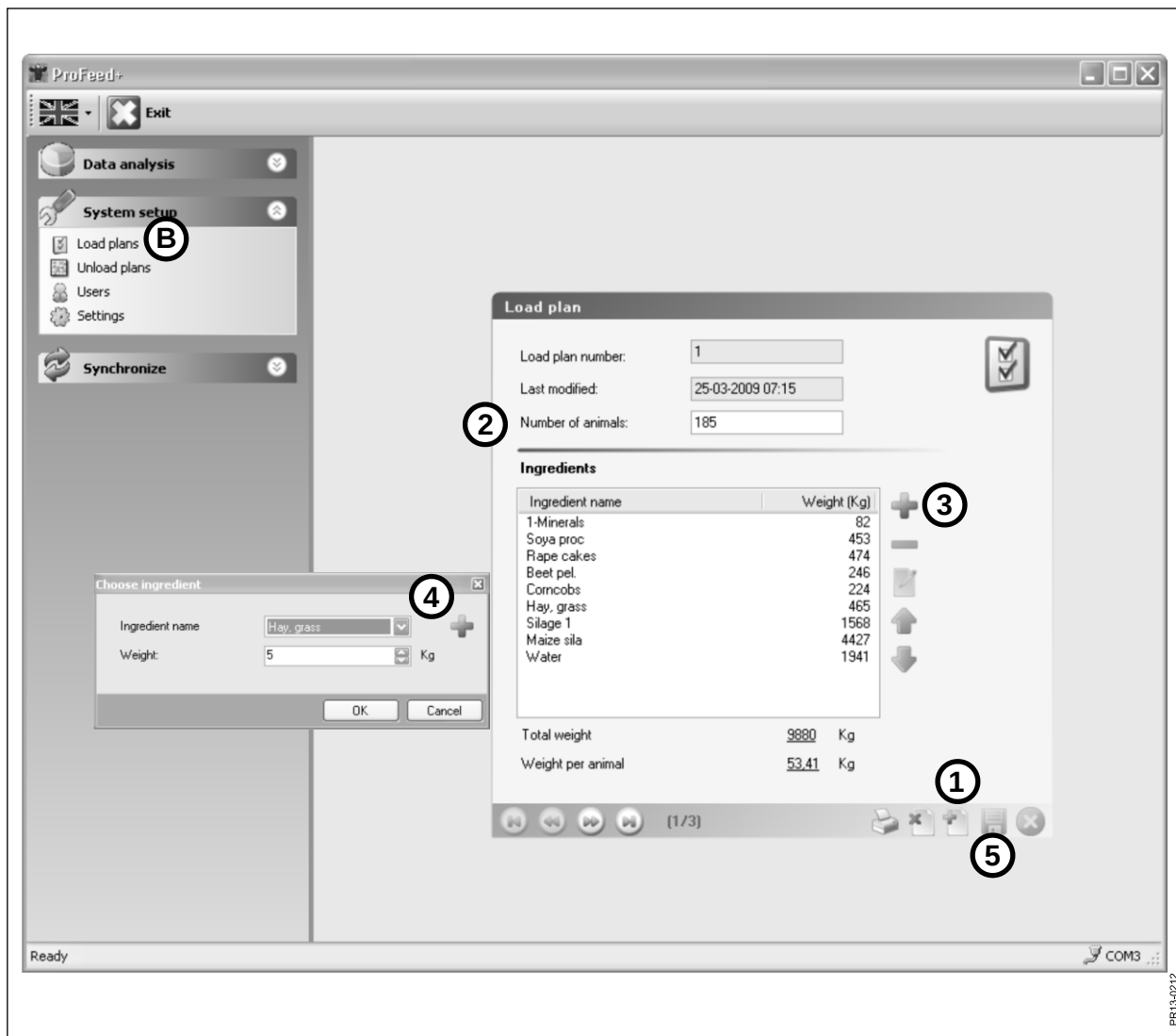


Fig. 4.3

MENU B: “LOAD PLANS”

Fig. 4.3 Create new load plan:

1. +

Press the green plus at the bottom of the display and a new load plan is created. The load plan is automatically given the next available number in succession.

2. “Number of animals”

Here is stated the amount of animals that have to share the mixture. It is simultaneously a “scaling factor”. I. e. if the amount of animals is changed the ingredient weight is automatically scaled.

3. +

Press the green plus and a new ingredient is added to the load plan. Then the dialogue box described under point 4 appears.

4. “Ingredient name”

The name of the ingredient can be chosen from a list. There are approx. 30 pre-programmed names. If the desired name is not on the list a new name can be added by pressing the green plus. The name must not be longer than maximum 8 characters.

In the end the wanted weight is typed in.

5.

Press the disc-symbol and the plan is stored.

4. PC SOFTWARE

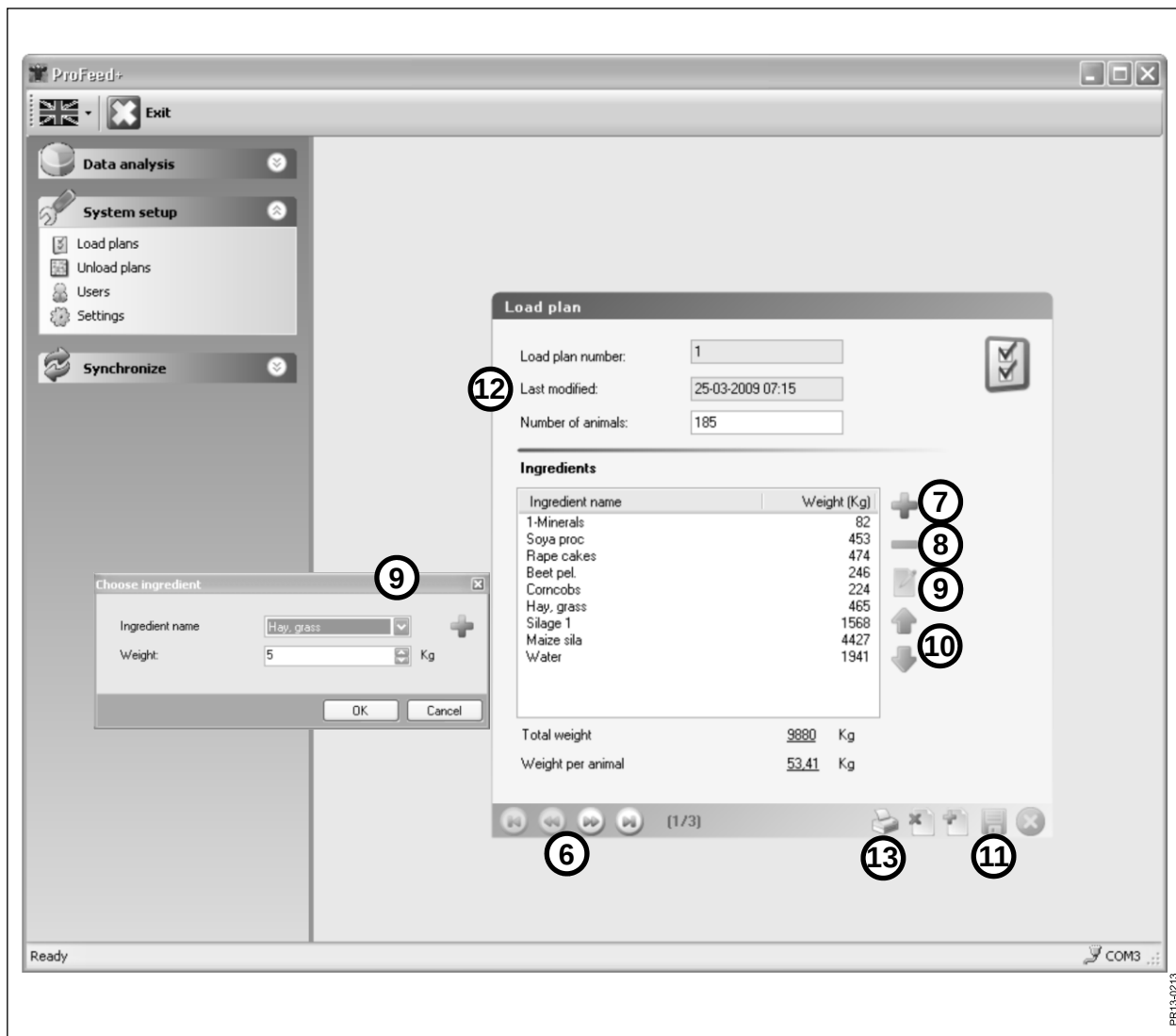


Fig. 4.4

Fig. 4.4 Edit load plan:

6. ←→

Choose the desired load plan by means of the arrow keys. {1/3} indicates that there are 3 load plans and that number 1 is shown.

7. +

Press the green plus and a new ingredient is added to the load plan. Then the dialogue box described under point 4 appears.

8. -

Press the red minus and the selected ingredient is deleted from the load plan.

9.

If you press the pencil-symbol a dialogue box appears and you can edit the chosen ingredient.

10. ↑↓

By means of the green arrow keys the placing of the chosen ingredient can be changed. I. e. the order of the ingredients can easily be changed subsequently.

11.

Press the disc-symbol and the plan is stored.

12. "Last modified"

The date shows when the plan was last changed.

13. "Print"

4. PC SOFTWARE

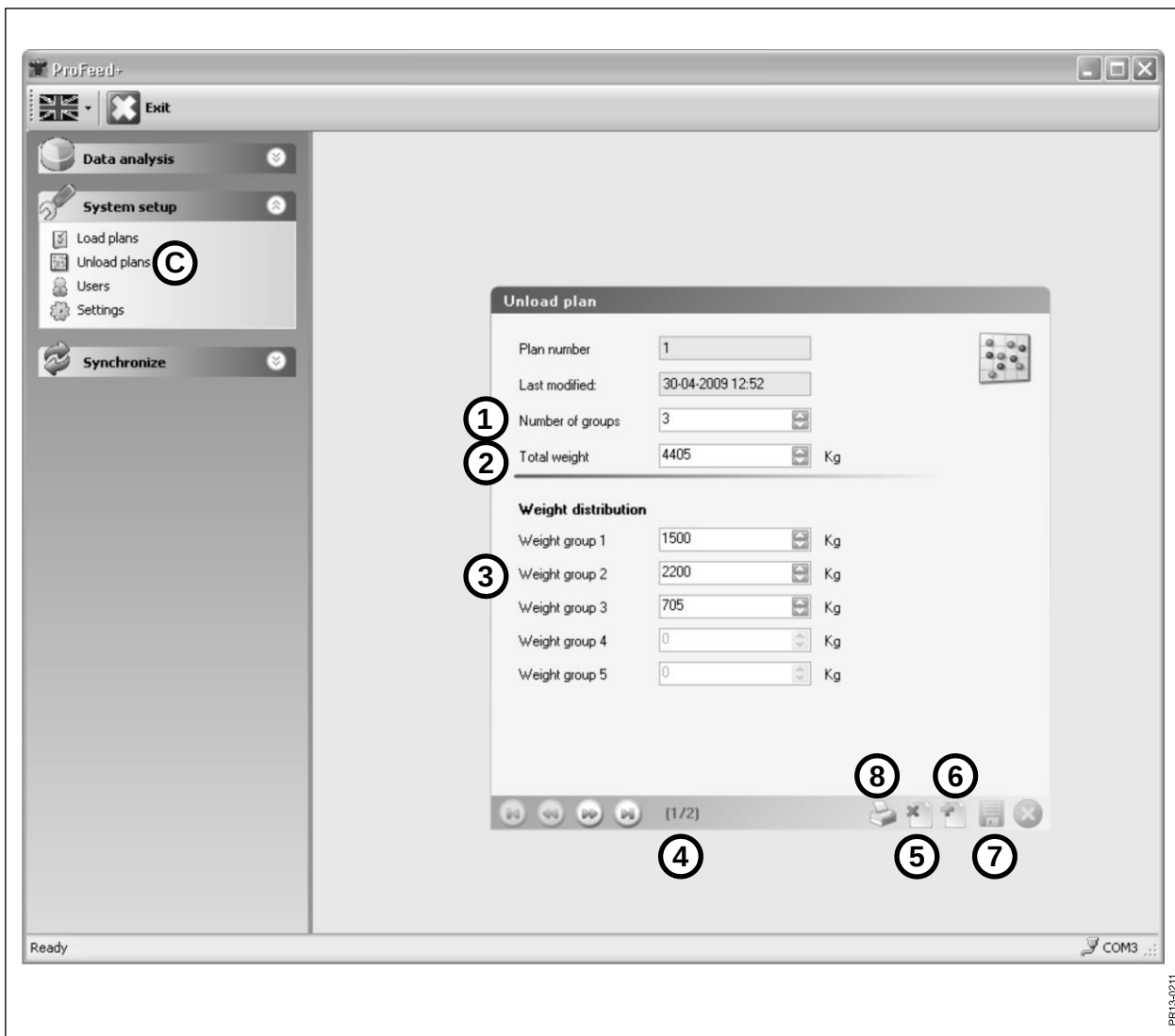


Fig. 4.5

MENU C: “UNLOAD PLANS”

Fig. 4.5

1. “Number of groups”

A mixture can be fed out in several partial portions. The number of portions is the same as the number of groups.

2. “Total weight”

Here is stated the total amount that according to load plan should be in the feeder when it is ready for discharge.

3. “Weight distribution”

Now state how many kg feed each group must have. The last group will automatically receive the rest of the feed.

4. {1/2}

Indicates that 2 unload plans have been stored – of which no. 1 is shown. With the arrow keys you can “leaf” through the stored plans.

5. x

Press the red cross and the shown unload plan is deleted.

6. +

Press the green plus and a new unload plan is created. The unload plan is automatically given the next available number in succession.

7.

Press the disc-symbol and the plan is stored.

8. “Print”

4. PC SOFTWARE

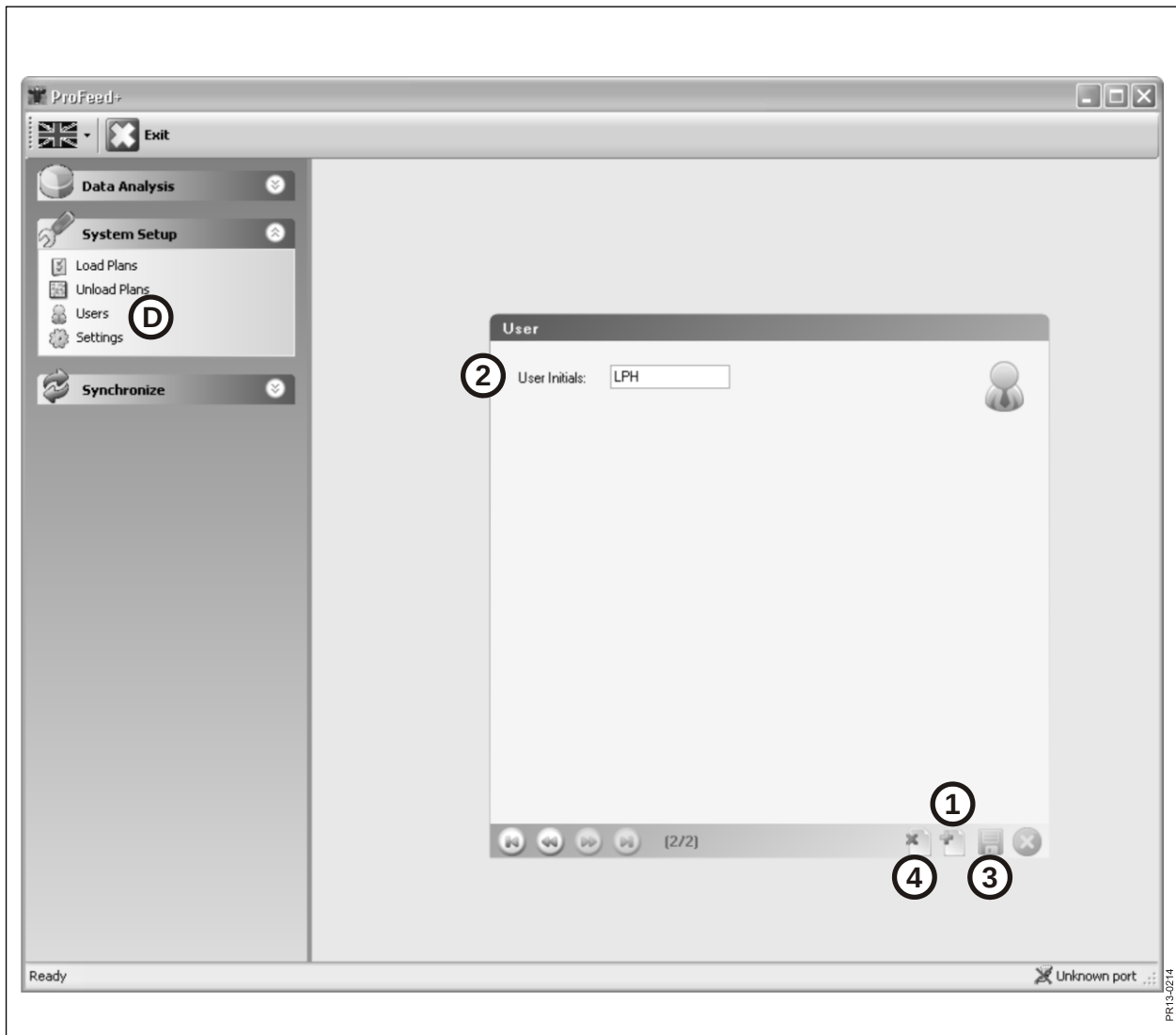


Fig. 4.6

MENU D: "USERS"

Fig. 4.6

1.

A new user can be added by pressing the green plus.

2. "User initials"

Now the user name can be added. The name must not / cannot be longer than maximum 4 characters.

3.

Press the disc-symbol and the name is stored.

4. X

If you press the red cross, the user name is deleted.

4. PC SOFTWARE

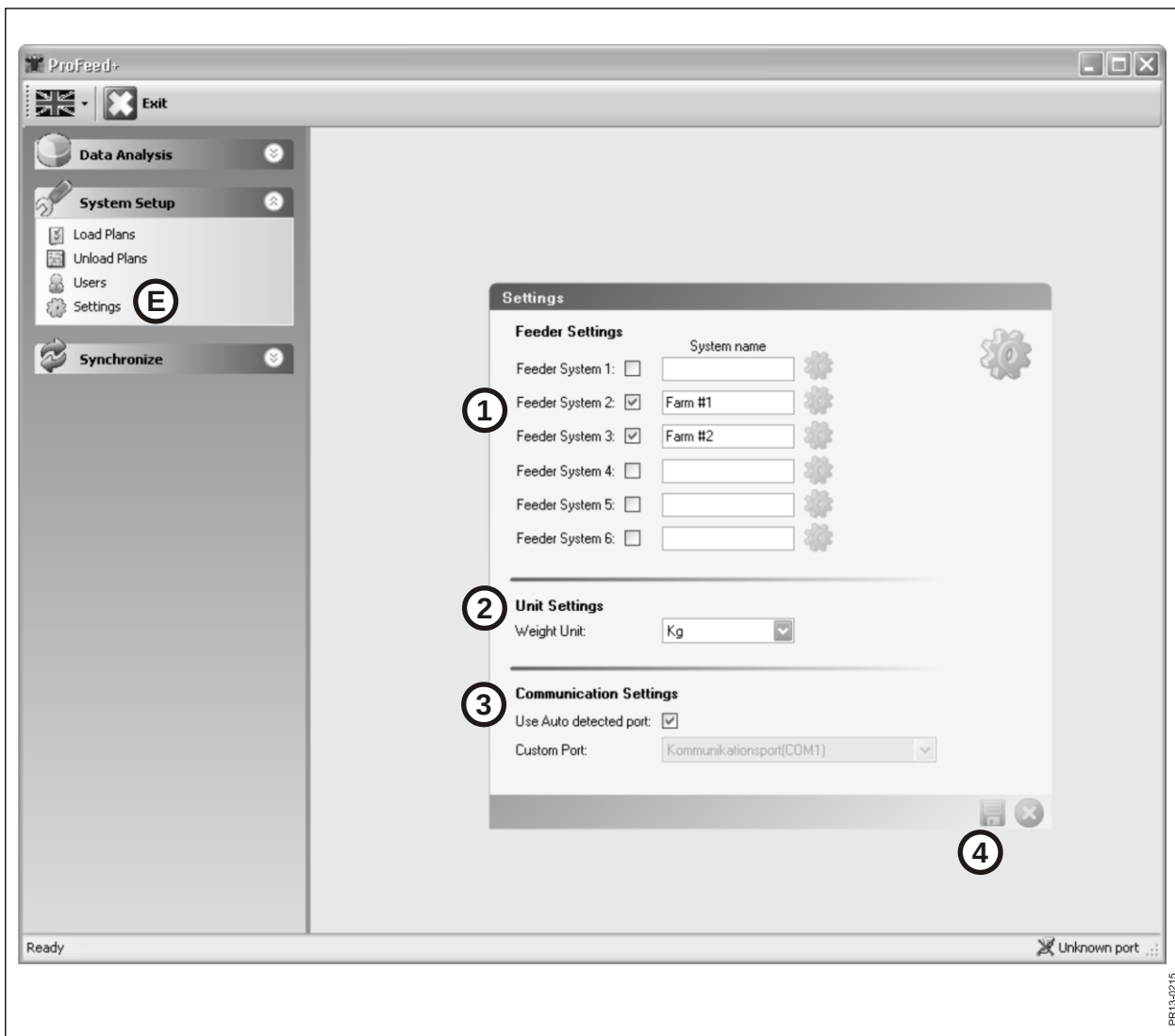


Fig. 4.7

MENU E: “SETTINGS”

Fig. 4.7

1. “Feeder settings”

If you use several feeders for the same PC software the setting must be as follows: place a check mark and name the feeder (system name).



If it is necessary to replace the main terminal, it must, due to consumption data, be learned as a new feeder system.

2. “Unit settings”

The weight unit can either be [kg] or [pound]. Stored load plans and unload plans are changed automatically if the unit is changed.

3. “Communication settings”

The communication unit, which is connected to a USB port, can be found automatically if there is a check mark in “Use Auto detected port” (recommended). Alternatively the port must be chosen actively.

4.

Press the disc-symbol and the settings are stored.

4. PC SOFTWARE

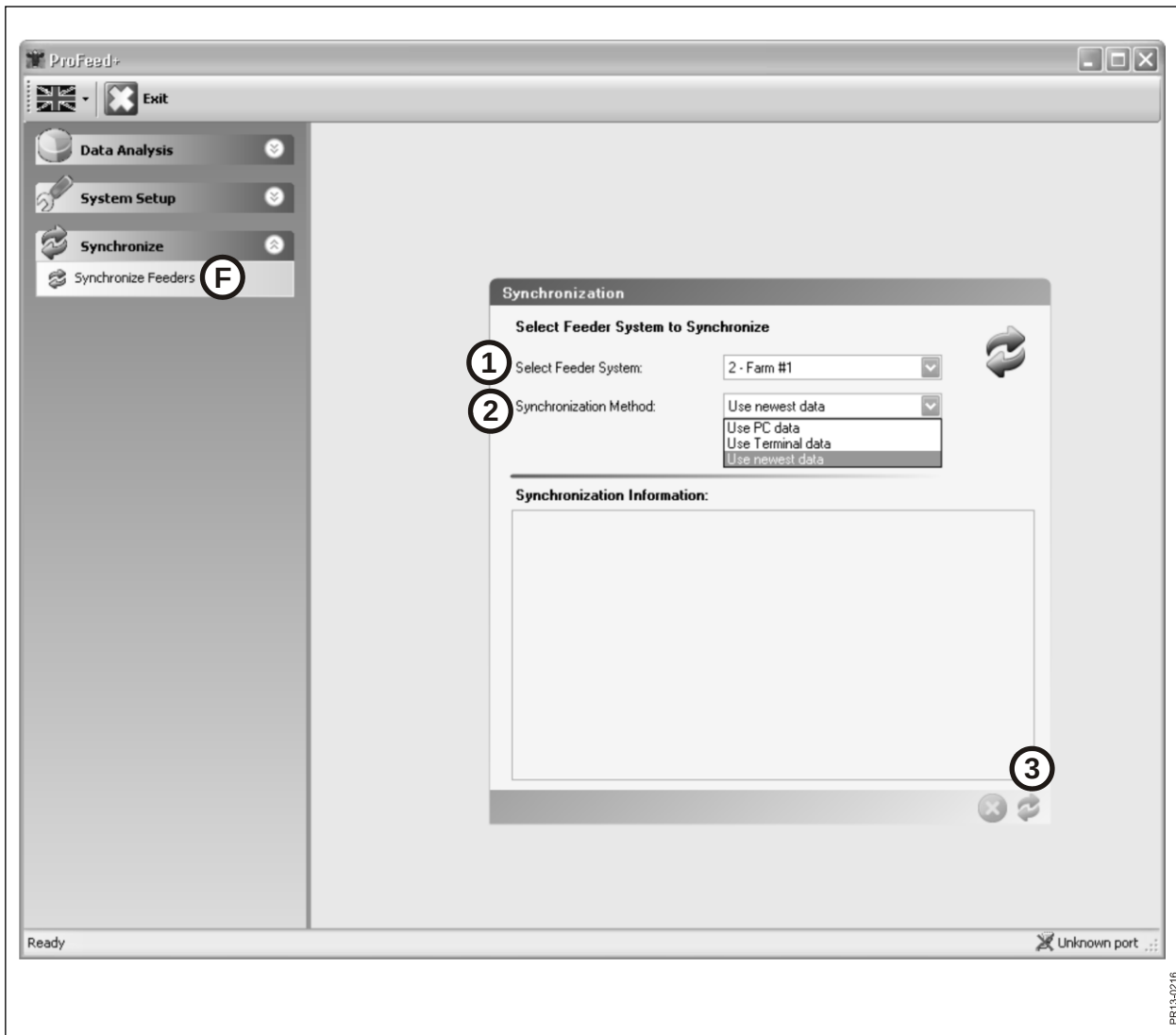


Fig. 4.8

MENU F: “SYNCHRONIZE FEEDERS”

Fig. 4.8

1. “Select Feeder system”

Here you select the Feeder which will be used for synchronization. The list shows the Feeders that have been chosen under point E-1.

2. “Synchronisation method”

There are 3 different synchronization methods:

- | | |
|--------------------|---|
| Use PC data: | PC data is used and what lies on the main terminal is overwritten. |
| Use Terminal Data: | Terminal data is used and what lies on the PC is overwritten. |
| Use newest Data: | During the synchronizing phase the data are compared and the newest will be stored. |



Please note! It is important that the date-time settings on the PC and the main terminal correspond with each other.



Please note! Always check which synchronisation method has been chosen before starting the synchronisation process. Also consider the consequences of your choice carefully.



No matter which one of the 3 methods you choose there is no risk of losing the gathered feeding data.

3.

Start the synchronization by pressing the green arrows. It takes a little longer the first time because there is much new data that has to be exchanged. Afterwards, only the data which have been changed will be synchronized.

5. TECHNICAL DATA



Fig. 5.1

5. TECHNICAL DATA

A) ASSEMBLY BOX FOR WEIGHING CELLS

Fig. 5.1

Size, LxWxH [mm]	255x180x75
Weight [g]	1050
Protection class	IP66
Plastic material	ABS
Voltage supply [V DC]	10 to 24
Electricity consumption [mA]	Maximum 90
Demand for initial fuse [A]	Maximum 10
Radio frequency [MHz]	868
Up-date frequency	5 times per second
Number of weighing cells	1 to 8
Printed circuit board	SMD mounted and sealed against moisture
Temperature [C°]	-20 to 70
CE-approved	Yes

5. TECHNICAL DATA



Fig. 5.2

B) MAIN TERMINAL**Fig. 5.2**

Size, LxWxH [mm]	195x100x44
Weight [g]	392
Protection class	IP40
Plastic material	ABS
Voltage supply [V DC]	10 to 24
Electricity consumption [mA]	Maximum 350
Demand for initial fuse [A]	Maximum 10
Radio frequency [MHz]	868
Up-date frequency	5 times per second
Display-resolution	128x64 pixels
Background light	Yes
Backup battery	3V type CR2032
Printed circuit board	SMD mounted and sealed against moisture
Temperature [C°]	-20 to 70
Heating element by display	Yes
CE-approved	Yes



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Fig. 5.3

C) HAND TERMINAL

Fig. 5.3

Size, LxWxH [mm]	120x65x21
Weight [g]	140
Protection class	IP40
Plastic material	ABS
Voltage supply [V DC]	9 to 24
Demand for initial fuse [A]	Maximum 10
Battery type "E" [V]	9
Rechargeable battery [V]	9 NiMH
Electricity consumption [mA]	Maximum 60
Electricity consumption without background light [mA]	14
Radio frequency [MHz]	868
Up-date frequency	5 times per second
Display-resolution	128x64 pixels
Background light	Yes
Backup battery	3V type CR2032
Printed circuit board	SMD mounted and sealed against moisture
Temperature [C°]	-20 to 70
CE-approved	Yes



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Fig. 5.4

D) SENDER/RECEIVER FOR USB**Fig. 5.4**

Size, LxWxH [mm]	92x56x23
Weight [g]	57
Protection class	IP40
Plastic material	ABS
Voltage supply [V]	Via USB
Electricity consumption [mA]	<100
Radio frequency [MHz]	868
Transfer speed	approx. 700 mixtures/min.
Printed circuit board	SMD mounted and sealed against moisture
Temperature [C°]	0 to 70
CE-approved	Yes

6. MISCELLANEOUS

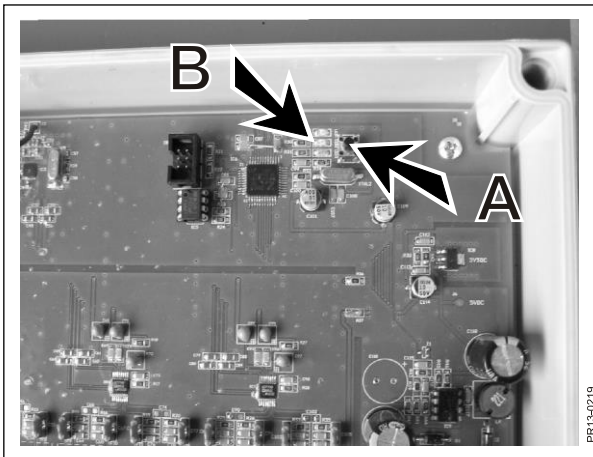


Fig. 6.1

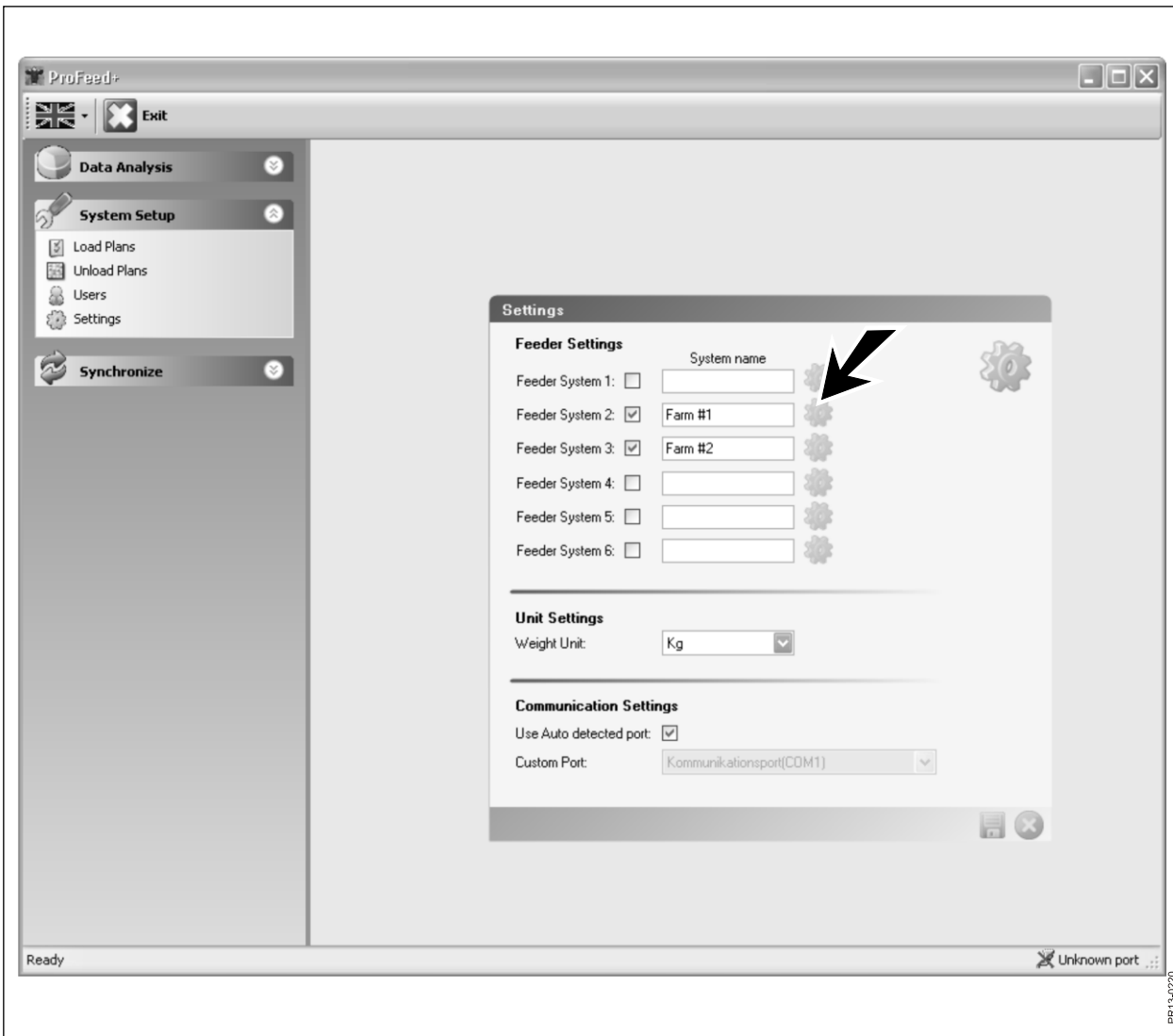


Fig. 6.2

6. MISCELLANEOUS

LEARNING

In order for all units to work together as one system which is not disturbed by signals from the outside, they must be “linked together”.

The main terminal is the central unit to which all units are connected.

- Fig. 6.1**
- 1) Choose menu point 3.11: “Learn mode” on the main terminal.
 - 2) Learn the assembly box for weighing cells by pressing (A) until the 3 light diodes (green, yellow, red) (B) are blinking (approx. 3 seconds).
 - 3) Learn the hand terminal by choosing menu point “Learn mode” under “Setup”. When the following text appears in the display you have succeeded: “Id received, press OK”.
- Fig. 6.2**
- 4) Establish the connection with the PC software by choosing menu point: “Settings” in the PC software, place a check mark at the system you wish to use and name the system. The settings are saved by choosing the disc symbol. Finally, press the gear wheel symbol at the system you wish to use.



If it is necessary to replace the main terminal, it must, due to consumption data, be learned as a new feeder system.

INTERRUPTIONS

PROBLEM	POSSIBLE CAUSE	ACTION
No light in the remote control	The battery is flat.	Change the battery.
No reaction when buttons are pressed.	Poor signal communication.	Radio noise sources close by must be turned off.
No signal	No current on weighing box	
No current on weighing box	Error in external 7-pole or 2-pole plug	Change fuse in external plug

